



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-6D BYPASS RATIO: 5.9
 UNIQUE ID NUMBER: 1GE001 PRESSURE RATIO (π_{00}): 24.7
 COMBUSTOR:
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 174.8

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	36.7	93.3	68.9	4.3
AS % OF ORIGINAL LIMIT	187.4	79.1	77.1	20.9
AS % OF CAEP/2 LIMIT (NO _x)			96.4	
AS % OF CAEP/4 LIMIT (NO _x)			117.8	
AS % OF CAEP/6 LIMIT (NO _x)			133.8	
AS % OF CAEP/8 LIMIT (NO _x)			161.5	

DATA STATUS

x PRE-REGULATION
 - CERTIFICATION
 x REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	1.736	0.30	0.50	40.00	4.0
CLIMB OUT	85	2.2	1.431	0.30	0.50	32.60	3.0
APPROACH	30	4.0	0.484	0.70	6.50	11.40	3.0
IDLE	7	26.0	0.173	21.00	54.20	4.50	4.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			648	5821	15496	11611	-
NUMBER OF ENGINES				7	7	7	7
NUMBER OF TESTS				7	7	7	7
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				33.3	88.7	66.4	4.0
SIGMA (D _p /F ₀₀ in g/kN, or SN)				3.5	6.9	2.3	2.2
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.2-100.5
TEMPERATURE (K)	280-301
ABS HUMIDITY (kg/kg)	0.003-0.015

FUEL

SPEC	Jet A
H/C	1.93
AROM (%)	18.7

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: Production Engine Test
 TEST LOCATION: Production Test Cells M34 & M35
 TEST DATES: 16/08/1979-19/11/1979

REMARKS

1. Ref Report no FAA-EE-80-27 (GE Report R80AEG420)

Compliance with Fuel Venting requirements: -

('x' if complies, 'PR' if pre-regulation, '-' if information is not available)